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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/872,311 05/31/2001		David Kar Ling Lo	13004US01	4548		
75	90 01/09/2003	.•				
Robert W. Fieseler McAndrews, Held & Malloy, Ltd. 500 West Madison Street, 34th Floor Chicago, IL 60661			EXAMINER			
			TALBOT, BRIAN K			
			ART UNIT	PAPER NUMBER		
			1762			
			DATE MAILED: 01/09/2003			

Please find below and/or attached an Office communication concerning this application or proceeding.

							DLS		
^			Application	No.		Applicant(s)	0		
Office Action Summary		09/872,311		-	LO ET AL.				
			Examin r			Art Unit			
			Brian K Talbo			1762			
Th MAILIN Period for Reply	IG DATE of this commu	nication app	ears on the co	ov rsl	he t with the c	correspond nce a	ddress		
THE MAILING DA - Extensions of time may after SIX (6) MONTHS - If the period for reply si - Failure to reply within ti - Any reply received by ti	TATUTORY PERIOD F TE OF THIS COMMUN y be available under the provision from the mailing date of this com pecified above is less than thirty (s specified above, the maximum s he set or extended period for repl he Office later than three months ustment. See 37 CFR 1.704(b).	IICATION. s of 37 CFR 1.13 munication. 30) days, a reply statutory period w y will by statute.	36(a). In no event, within the statutor will apply and will expense the applica	however y minimu cpire SIX tion to be	r, may a reply be tin um of thirty (30) day ((6) MONTHS from ecome ABANDONE	nely filed s will be considered tim the mailing date of this (D) (35 U.S.C. § 133).	ely. communication.		
1) Responsiv	e to communication(s) f	iled on <u>05 S</u>	September 20	<u>001</u> .					
2a) This action	ı is FINAL .	2b)⊠ Thi	is action is no	n-fina	al.				
3) Since this closed in a Disposition of Claim	application is in condition accordance with the praiss	on for allowa ctice under a	ance except fo Ex parte Qua	or form <i>yl</i> e, 19	nal matters, p 935 C.D. 11, 4	rosecution as to 453 O.G. 213.	the merits is		
4)⊠ Claim(s) <u>1-</u>	20 is/are pending in the	application	١.						
4a) Of the a	bove claim(s) is/	are withdrav	wn from cons	iderati	ion.				
5)☐ Claim(s)	is/are allowed.								
6)⊠ Claim(s) <u>1-</u>	6) Claim(s) <u>1-20</u> is/are rejected.								
7) Claim(s)	is/are objected to.								
8) Claim(s)	are subject to restr	iction and/o	r election req	uirem	ent.				
Application Papers									
,	ation is objected to by t								
	(s) filed on is/are								
	nay not request that any o								
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.									
	d, corrected drawings are i			ce actio	on.				
ŕ	declaration is objected	to by the Ex	kaminer.						
Priority under 35 U.									
	gment is made of a clai		n priority und	er 35	U.S.C. § 119((a)-(d) or (f).			
	Some * c)☐ None of								
	1. Certified copies of the priority documents have been received.								
	·								
l	es of the certified copie application from the Inte ched detailed Office act	ernational Bu	ureau (PCT F	Rule 17	7.2(a)).		al Stage		
14)□ Acknowledg	ment is made of a claim	n for domest	tic priority und	der 35	U.S.C. § 119	(e) (to a provisio	nal application).		
a) \square The tra	anslation of the foreign I Iment is made of a clain	anguage pro	ovisional app	licatio	n has been re	eceived.			
Attachment(s)									
1) Notice of Reference 2) Notice of Draftspers 3) Information Disclos	es Cited (PTO-892) son's Patent Drawing Review ure Statement(s) (PTO-1449	(PTO-948)) Paper No(s) <u>4</u>	<u>4</u> .	5) 🔲		ary (PTO-413) Paper al Patent Application (

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1. Claims 1-20 remain in the application.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4 and 6-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Song et al. (5,935,643) or Breault et al. (5,732,463).

Song et al. (5,935,643) or Breault et al. (5,732,463) teach method of manufacturing electrode for fuel cells whereby a coating is applied to a porous substrate, dried, rolled and sintered to form the electrode. The rollers are placed having a gap distance and a protecting film is situated between the electrode and the roller to avoid sticking during compaction.

Song et al. (5,935,643) or Breault et al. (5,732,463) fail to teach that the process is continuous.

It is the Examiner's position that one skilled in the art at the time the invention was made would have had a reasonable expectation that the above processes would produce the expected results in either a continuous or non-continuous process.

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Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Song et al. (5,935,643) or Breault et al. (5,732,463) in combination with Campbell et al. (5,863,673).

Song et al. (5,935,643) or Breault et al. (5,732,463) fail to teach pre-treating the substrate with a hydrophobic polymer before applying the coating material.

Campbell et al. (5,863,673) teaches forming a porous electrode for a fuel cell whereby a hydrophobic coating is applied prior to the filling step. (col. 3, lines 64-67)

Therefore, it would have been obvious for one skilled in the art at the time the invention was made to have modified Song et al. (5,935,643) or Breault et al. (5,732,463) process with a hydrophobic coating as evidenced by Campbell et al. (5,863,673) with the expectation of achieving similar results.

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian K Talbot whose telephone number is (703) 305-3775. The examiner can normally be reached on Monday-Friday 6AM-3PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shrive P Beck can be reached on (703) 308-2333. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9310 for regular communications and (703) 872-9311 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3775.

> Brian K Talbot **Primary Examiner** Art Unit 1762

B-KPalty

BKT January 7, 2003